



Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ORTHO House Plant Insect Control

PRODUCT NUMBER(S): AGC1000-64 UPC01093A

COMPANY IDENTIFICATION

CHEVRON CHEMICAL COMPANY
ORTHO CONSUMER PRODUCTS
P.O. BOX 5047
SAN RAMON, CA 94583 0947

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)457-2022 or
(510)233-3737 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % ORTHO House Plant Insect Control

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
ACEPHATE Chemical Name: O,S-DIMETHYLACETYLPHOSPHORAMIDOTHIOATE CAS30560191	< 0.3%	1 mg/m3	Chevron TWA
RESMETHRIN Chemical Name: (SEE BELOW) CAS10453868	0.1%		

Complete chemical name: 5-(phenylmethyl)-3-furanyl methyl
2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate

INERT INGREDIENTS

< 99.7%

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act (40 CFR 158.153). It refers to any substance, other

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NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology
and Health Risk Assessment Unit, CRTG, P.O. Box 4054, Richmond, CA 94804

than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

INCLUDING

METHYL CHLOROFORM

Chemical Name: ETHANE,1,1,1-TRICHLORO-
CAS71556

350 ppm	ACGIH TWA
2460 mg/m3	ACGIH STEL
1900 mg/m3	OSHA PEL
1,000 LBS	CERCLA 302.4 RQ

ISOPROPYL ALCOHOL

Chemical Name: 2-PROPANOL
CAS67630

400 ppm	ACGIH TWA
1230 mg/m3	ACGIH STEL
980 mg/m3	OSHA PEL

PROPANE

Chemical Name: PROPANE
CAS74986

Asphyxiant	ACGIH TWA
1800 mg/m3	OSHA PEL

LABEL COMMENT:

This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary use, storage and disposal information presented on the product label. This information will help you to prepare for emergency response and to meet community right-to-know/ emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Homeowner consumer use, storage and disposal are regulated by the EPA through the approved label copy, and it is a violation of Federal law to use the product in any manner not prescribed on the EPA-approved label. In order to avoid confusion, this MSDS should not be distributed to homeowner consumers.

Although an MSDS is not required for a consumer product used by the homeowner, we provide this MSDS for employers who handle or store large quantities of this product (e.g. transporters, warehouses and retailers).

This MSDS should also be made available to any employee whose exposure to the product in quantity, frequency or duration may be greater than that of a homeowner consumer.

This MSDS should be supplied to subsequent transporters, shippers, warehouses, retailers or employers where handling, storing or use of this product exceed in quantity, frequency or duration those of a homeowner consumer.

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TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Concentrate is clear, yellow liquid

- HARMFUL IF SWALLOWED
- CAUSES EYE IRRITATION
- AVOID CONTACT WITH EYES, SKIN OR CLOTHING
- AVOID BREATHING SPRAY MIST
- EXTREMELY FLAMMABLE
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYE:

This substance is slightly irritating to the eyes and could cause prolonged (days) impairment of your vision. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

SKIN:

This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

INGESTION:

This substance is slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut. Read the Toxicology Information section (11) of this document for more information.

INHALATION:

This substance may be irritating if inhaled. This substance is slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. Read the Toxicological Information section (11) of this document for more information.

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE: May include pain, tears, swelling, redness, and blurred vision.

INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

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4. FIRST AID MEASURES

EMERGENCY NUMBER (24 hr): (800)457-2022 or (510)233-3737 (International)

EYE:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. If irritation persists, see a doctor.

SKIN:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INGESTION:

If swallowed, DO NOT make person vomit unless directed to do so by a doctor. Immediately take person and container to a doctor or an emergency hospital. If this is not possible telephone for medical advice.

INHALATION:

If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

NOTE TO PHYSICIANS:

This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: TCC 53F (Aerosol concentrate)

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NDA Upper: NDA

Factory Mutual Level II Aerosol (NFPA 30B)

EXTINGUISHING MEDIA:

NDA

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

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6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES:

Cover spill with a generous amount of Oil Dry, cat litter, clay, rags or other absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. For help with any spill, leak, fire, or exposure involving this material, call day or night (800) 457-2022.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

CONTAINER UNDER PRESSURE. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate or store above 130F. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Store in a secure, preferably locked, cool dry storage area away from heat, open flame, and direct sunlight.

Cover fish aquaria or fish ponds before spraying. Keep children and animals away from treated areas until these areas have dried.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

Do not get this material in your eyes. Eye contact can be avoided by wearing chemical goggles.

SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

ENGINEERING CONTROLS:

Use this material only in well ventilated areas.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Concentrate is clear, yellow liquid
pH: NDA
VAPOR PRESSURE: 55 - 69 PSIG @ 70F
VAPOR DENSITY
(AIR=1): >1
BOILING POINT: NDA
FREEZING POINT: NDA
MELTING POINT: NDA
SOLUBILITY: Aerosol concentrate 64% by wt. and water soluble.
SPECIFIC GRAVITY: 0.915 @ 20/20C
DENSITY: NDA
EVAPORATION RATE: NDA
PERCENT VOLATILE
(VOL): >99%

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Corneal involvement or irritation clearing in 7 days or less.

SKIN EFFECTS:

No irritation at 72 hours. The Draize Skin Primary Irritation Score (range, 0-8) for a 4-hour exposure (rabbits) is 0.0. The dermal LD50 in rabbits is greater than 5 g/kg.

ACUTE ORAL EFFECTS:

The oral LD50 in male rats is 3.7 g/kg. The oral LD50 in female rats is 3 g/kg.

ACUTE INHALATION EFFECTS:

The 1-hour inhalation LC50 in rats is greater than 5 mg/liter.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains an organic phosphorus insecticide which inhibits the

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enzyme cholinesterase. Signs and symptoms which may be seen, usually within 12 hours following overexposure, may include, but may not be limited to, headache, dizziness, weakness, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating, abdominal cramps, nausea and vomiting. Incontinence, unconsciousness and convulsions indicate severe poisoning. In untreated severe poisoning, respiratory depression or cardiac arrest may be fatal. Repeated exposure may result in depletion of cholinesterase. Additional slight exposure may result in signs and symptoms. Note to Physician: Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

This product contains acephate. There is no substantiated evidence that acephate has caused cancer, long-term health, mutagenic, or reproductive problems in humans. When mice were fed diets containing acephate throughout their entire lifetime, a compound-related increase in liver weight, together with liver carcinoma (a commonly occurring cancer in mice) occurred in high-dose females. These changes were not observed in the males at any dose level or in low- or mid-dose females. When rats were fed diets containing acephate throughout their entire lifetime, there was no treatment-related increase in tumors at any site. The most significant treatment-related effect was a decrease in cholinesterase activity of plasma, RBC, and brain.

Acephate has been shown to have a weak potential to cause mutations when tested in microbes or cultured cells and in some studies using mice. However, the results of most live animal studies indicate that acephate does not cause mutations in whole animals.

When male and female rats were fed acephate continuously for two generations through weaning of the third generation, animals in the mid- and high-dose groups demonstrated compound-related effects on reproductive performance. The low-dose was judged to be a no-effect level. There is no evidence that acephate causes birth defects.

The significance of the above-mentioned results cannot be fully evaluated for humans. However, based on the dose-response observed in these studies and risk evaluation of the results, it is concluded that the risk of developing cancer or other adverse health effects is minimal if one follows the precautions outlined on the product label, material safety data sheet and any plant safety instructions.

Acephate did not induce a positive skin sensitization reaction in the guinea pig using the Modified Buehler or the Maximization techniques.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

This material may be toxic to aquatic organisms and should be kept out of

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sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE:

No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Unused product may be disposed of by replacing cap, securely wrapping original container in several layers of newspaper and discarding in trash. Do not incinerate or puncture.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NDA

DOT HAZARD CLASS: NDA

DOT IDENTIFICATION NUMBER: NDA

DOT PACKING GROUP: NDA

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:	1. Immediate (Acute) Health Effects:	YES
	2. Delayed (Chronic) Health Effects:	NO
	3. Fire Hazard:	YES
	4. Sudden Release of Pressure Hazard:	YES
	5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	21=TSCA Sect 4(e)
02=MASS RTK	12=CERCLA 302.4	22=TSCA Sect 5(a)(2)
03=NTP Carcinogen	13=MN RTK	23=TSCA Sect 6
04=CA Prop 65-Carcin	14=ACGIH TWA	24=TSCA Sect 12(b)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	25=TSCA Sect 8(a)
06=IARC Group 1	16=ACGIH Calc TLV	26=TSCA Sect 8(d)
07=IARC Group 2A	17=OSHA PEL	27=TSCA Sect 4(a)
08=IARC Group 2B	18=DOT Marine Pollutant	28=Canadian WHMIS
09=SARA 302/304	19=Chevron TWA	29=OSHA CEILING
10=PA RTK	20=EPA Carcinogen	30=Chevron STEL

The following components of this material are found on the regulatory lists indicated.

O,S-DIMETHYLACETYLPHOSPHORAMIDOTHIOATE

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is found on lists: 19,20.
2-PROPANOL
is found on lists: 01,02,10,11,13,14,15,17,24,26,27,28,
ETHANE,1,1,1-TRICHLORO-
is found on lists: 01,02,10,11,12,13,14,15,17,18,24,27,28,
PROPANE
is found on lists: 02,10,11,13,14,17.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0;
HMIS RATINGS: Health 1; Flammability 4; Reactivity 0;
(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

PRODUCT DISCONTINUED. This Material Safety Data Sheet will no longer be updated.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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